

Name: _____

Determining Lengths from the Volume (Part 2)

For each figure, use the volume formula and given information to determine the desired value.

<p>1. The volume of a sphere is 1456 cubic centimeters. What is the approximate length of the radius to the nearest whole number?</p>	<p>2. The volume of a cone is 6.28 cubic centimeters and the radius is 1 centimeters. What is the approximate length of the height of the cone to the nearest whole number?</p>	<p>3. A prism has a volume of 37 cubic centimeters and a base area of 9 square centimeters. What is the approximate height of the figure to the nearest whole number?</p>
<p>4. The volume of a cylinder is 1750 cubic centimeters and the radius is 9 centimeters. What is the approximate length of the height of the cylinder to the nearest whole number?</p>	<p>5. The volume of a cylinder is 600 cubic centimeters and the height is 3 centimeters. What is the approximate length of the radius of the cylinder to the nearest whole number?</p>	<p>6. The volume of a cone is 304 cubic centimeters and the height is 8 centimeters. What is the approximate length of the radius of the cone to the nearest whole number?</p>

<p>7. A square pyramid has a volume of 32 cubic centimeters and a height of 6 centimeters. What is the approximate length of each side of the base to the nearest whole number?</p>	<p>8. A square prism has a volume of 265 cubic centimeters and a height of 8 centimeters. What is the approximate length of each side of the base to the nearest whole number?</p>	<p>9. A pyramid has a volume of 12 cubic centimeters and a base area of 7 square centimeters. What is the approximate height of the figure to the nearest whole number?</p>
<p>10. The volume of a cone is 508.68 cubic centimeters and the radius is 9 centimeters. What is the approximate length of the height of the cone to the nearest whole number?</p>	<p>11. The volume of a cone is 210.38 cubic centimeters and the height is 4 centimeters. What is the approximate length of the radius of the cone to the nearest whole number?</p>	<p>12. The volume of a cylinder is 1500 cubic centimeters and the height is 6 centimeters. What is the approximate length of the radius of the cylinder to the nearest whole number?</p>
<p>13. A square pyramid has a volume of 90 cubic centimeters and a height of 4 centimeters. What is the approximate length of each side of the base to the nearest whole number?</p>	<p>14. The volume of a sphere is 36 cubic centimeters. What is the approximate length of the radius to the nearest whole number?</p>	<p>15. The volume of a cylinder is 785 cubic centimeters and the height is 10 centimeters. What is the approximate length of the radius of the cylinder to the nearest whole number?</p>